A DSPSE status meeting was held at 1000 (EST) at the BATCAVE on 26 March 94 and chaired by Lou Wheatcraft. This meeting discussed spacecraft activities from 1000 on 3/25/94 to 1000 on 3/26/94. This memorandum briefly summarizes the results of the meeting.

**Engineering**

We are currently doing orbit 165 imaging; all data transmission is complete up to orbit 164.

All spacecraft systems are nominal at this time. A momentum dump was performed for all wheels as part of the first rotation burn when the jets were activated.

Both periselene rotation burns were performed as scheduled. The first burn started and stayed in the primary mode (mode 1) until the end of the burn when the latch valves where closed. A pressure difference between the master and slave transducers forced a mode change to backup mode (mode 2). The second burn started in backup mode (mode 2).

Currently, there is 180.7 lbs of propellant remaining. Of this, approximately 6 lbs is unusable (trapped in fuel lines, etc.), leaving 174.75 lbs of usable propellant. Lunar departure will use another 106 lbs. In addition, the efficiency of the propellant system drops at the 95% empty point. All this data will be refined by Monday and then TAMP will use this new data to plan the rest of the mission and other mission options being considered (swoop down, second asteroid, etc.).

The bistatic radar tests are still on for orbits 167 and 169.

**Flight Software**

No new problems. Flight software supported the burns well.

**TAMP**

The periselene rotation burns took place as scheduled. The second burn was good, but maybe 1% low. Periselene is now at 447 km and decreasing. The orbit looks like it is right on. It will require several more hours of tracking before FDF supplies us with a new trajectory. A contingency trim burn is still being scheduled for 25 hours after the second burn in case it is required.

**Sensors**

Sensor operation during lunar imaging continues to be nominal.
SMOP - Mapping Results

Image collection and data transmission has been completed for orbits 161 through 164 and orbit 165 mapping is in progress. Mapping is going very well. All data has been downlinked up to this orbit.

Orbit 165 begins the second month of mapping and is the first mapping orbit following the periselene rotation.

Following orbit 165 imaging, the data will be transmitted and orbit 166 imaging scripts for a type A orbit will be uplinked. Because of the RF blockage times, there will be no uncompressed images and the only HiRes imaging will be over the poles. Orbit 167 will be a modified type B orbit and imaging will end at 40°N latitude, and the 60 minute bistatic radar test will be performed. Ten minutes after the BSR test there will be a 70 minute RF blockage, followed by the SSDR downlink. Orbit 167 will be conducted with the -X axis forward. Orbit 168 will be a modified Type A RF blockage script, and then Orbit 169 will be conducted similar to orbit 167 with another BSR test at the end. Orbits 170 through 176 will be normal RF blockage orbits. Starting with orbit 177, we will be out of the RF blockage time frame and will use normal mapping scripts.

Scheduling

DSN is scheduled to obtain the required post maneuver tracking data and for the bistatic radar tests.